

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number  
**WO 2005/095545 A1**

(51) International Patent Classification<sup>7</sup>: **C09K 21/04**,  
21/14, H01B 7/29, 7/295

Victoria 3108 (AU). **PRESTON, Christopher** [AU/AU];  
Unit 2, 58 Glen Iris Road, Glen Iris, Victoria 3146 (AU).

(21) International Application Number:  
PCT/AU2005/000465

(74) Agent: **PHILLIPS ORMONDE & FITZPATRICK**; 367  
Collins Street, Melbourne, Victoria 3000 (AU).

(22) International Filing Date: 31 March 2005 (31.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2004901751 31 March 2004 (31.03.2004) AU

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(71) Applicant (for all designated States except US): **POLY-  
MERS AUSTRALIA PTY LIMITED** [AU/AU]; 32 Busi-  
ness Park Drive, Notting Hill, Victoria 3168 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALEXANDER,  
Graeme** [AU/AU]; 2/1 Daff Avenue, Hampton East, Victo-  
ria 3188 (AU). **CHENG, Yi-Bing** [AU/AU]; 639 Highbury  
Road, East Burwood, Victoria 3151 (AU). **BURFORD,  
Robert, Paul** [AU/AU]; 107 Prospect Road, Summer  
Hill, New South Wales 2130 (AU). **SHANKS, Robert**  
[AU/AU]; 6 Britten Street, Glen Iris, Victoria 3146 (AU).  
**MANSOURI, Jaleh** [AU/AU]; 437/83-93 Dalmeny Ave-  
nue, Rosebery, Victoria 2018 (AU). **BARBER, Kenneth,  
Willis** [AU/AU]; "Istana Park", Cherry Swamp Road,  
Little River, Victoria 3211 (AU). **RODRIGO, Pulahinge,  
Don, Dayananda** [AU/AU]; 9 Murillo Court, Doncaster,

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: CERAMIFYING COMPOSITION FOR FIRE PROTECTION

(57) Abstract: The invention relates to a ceramifying composition for forming a fire resistant ceramic under fire conditions the composition comprising: (i) at least 10 % by weight of mineral silicate; (ii) from 8 % to 40 % by weight of at least one inorganic phosphate that forms a liquid phase at a temperature of no more than 800°C; and (iii) at least 15 % by weight based on the total weight of the composition of a polymer base composition comprising at least 50 % by weight of an organic polymer.



WO 2005/095545 A1